APPENDIX A SEED MIXTURES

Table A.1 Seed Mixtures Recommend	led for Permanent Seedings
ΛDEΛ	SEED MIYTURE (TARLE)

BORROW AREAS, ROADSIDES, DIKES, LEVEES, POND BANKS AND OTHER SLOPES AND BANKS

Well or excessively drained soils* 1,2,3,4,5 or 8
Somewhat poorly drained soils* 2
Variable drainage soil* 2

DRAINAGE DITCH AND CHANNEL BANKS

Well or excessively drained soils* ,2,3 or 4
Somewhat poorly drained soils* 2
Variable drainage soil * 2

DIVERSIONS

EFFLUENT DISPOSAL 5 or 6

GULLIED AND ERODED AREAS 3,4,5,8,10,11or 12

MINESPOIL & WASTE, AND OTHER SOIL BANKS

(If toxic substances & physical properties not limiting) 15,16,17 or 18

FRESHWATER SHORELINES (Fluctuating water levels) 5 or 6

SKI SLOPES 4 or 10

SOD WATERWAYS AND SPILLWAYS 1,2,3,4,6, 7, or 8

GENERAL RECREATION SEEDINGS

PICNIC AND PLAYGROUNDS OR DRIVING AND

ARCHERY RANGES, NATURE TRAILS (Not shaded) 1,2, or 23
CAMPING AND PARKING, NATURE TRAILS (Shaded) 19,20,21 or 23

SAND DUNES (Blowing sand) 24

WOODLAND ACCESS ROADS, SKID TRAILS AND 9,10,16 or 22

LOG YARDING AREAS

LAWNS AND HIGH MAINTENANCE AREAS 1,19,20 or 21

*See county soil survey for drainage class. Soil surveys are available from the County Soil and Water Conservation District Office.

Source: U.S. Department of Agriculture, Soil Conservation Service.

RECOMMENDED VARIETIES

Creeping red fescue (Pennlawn, Ensylva, Wintergreen)

Tall fescue (Kentucky 31) Birdsfoot trefoil (Empire)

Coastal panicgrass (Atlantic) Switchgrass (Blackwell, Shelter)

Little bluestem (Blaze, Aldous, Camper) Big bluestem (Niagra) Crownvetch (Chemung, Penngift) American beachgrass

Cape) Caucasian bluestem (Caucasian) Prennial ryegrass (Norlea, Manhattan)

Flat Pea (Lathco) Deertongue (Tioga)

Reed canarygrass (Palaton, Venture)

Winter Rye (Aroostook inland, Wintergraze coastal)

Table A.2 Grass Type for Seed Mixtures

<u>N0.</u>	Seed Mixture	Lbs/Acre	Lbs/1,000 Sq. Ft.
1.	Kentucky Bluegrass	20	.46
	Creeping red fescue	20	.46
	Perennial ryegrass	5	.11
	Total	45	1.03
2.	Creeping red fescue	20	.46
	Redtop	2	.05
	Tall fescue	20	.46
	Total	42	.97
3.	Creeping red fescue	20	.46
	Birdsfoot trefoil 1/	8	.18
	Tall fescue	20	.46
	Total	48	1.10
4.	Creeping red fescue	20	.46
	Redtop	2	.05
	Birdsfoot trefoil ^{1/}	8	.18
	Total	30	.69
5.	Reed Canary Grass	20	.46
	Redtop	5	.11
	Total	25	.57
6.	Reed canary grass	15	.34
	Redtop	5	.11
	Birdsfoot trefoil ^{1/}	10	.23
	Total	30	.68
7.	Tall Fescue	15	.34
	Perennial ryegrass	5	.11
	Birdsfoot trefoil ^{1/}	10	.23
	Total	30	.68
8.	Switchgrass	10 (PLS) ^{2/}	.23
	Weeping lovegrass	3	.07
	Little bluestem	10 (PLS ^{)2/}	.23
	Total	23	.53
9.	Creeping red fescue	10	.23
	Crownvetch ^{1/} or	15	.34
	Flat pea	(30)	(.69)
	Tall fescue	Ì5 [′]	.34
	Redtop	2	.05
	Total	42 - (57)	.96 - (1.31)
10.	Creeping red fescue	20	.45
	Redtop	2	.05
	Crownvetch ^{1/} or	15	.34
	Flat pea	(30)	(.69)
	Total	37 - (52)	.85 - (1.20)
11.	Birdsfoot trefoil ^{1/}	8	.18
•	Crownvetch ^{1/}	15	.34
	Creeping red fescue	20	.46
	Total	43	.98
	, Jul		.00

Table A.2 Grass Type for Seed Mixtures (cont.)

<u>N0.</u>	Seed Mixture	Lbs/Acre	Lbs/1,000 Sq. Ft.
12.	Tall fescue	15	.34
	Switchgrass	10 (PLS) ^{2/}	.23
	Perennial ryegrass	5	.11
	Crownvetch ^{1/}	15	.34
	Total	45	1.02
13.	Crownvetch ^{1/} or	10	.23
	Flat Pea	(30)	(.69)
	Switchgrass	5 (PLS) ^{2/}	.11
	Perennial ryegrass	5	.11
	Total	20 - (4)	.45 - (.91)
14.	Crownvetch ^{1/} or	15	.34
	Flat Pea Perennial ryegrass	(30) 10	(.69) .23
	Total	25 - (40)	.57 - (1.03)
15.	Switchgrass	2 (PLS) ^{2/}	.05
10.	Big Bluestem	4 (PLS) ^{2/}	.09
	•	2 (PLS) ^{2/}	
	Coastal Panicgrass		.05
	Caucasian bluestem	2 (PLS) ^{2/}	.05
	Little Bluestem	2 (PLS) ^{2/}	.05
16.	Total Tall fescue	12 20	.29 .46
10.	Flat Pea	30	.69
	Total	50	1.15
17.	Deertongue	10 (PLS) ^{2/}	.23
	Birdsfoot trefoil ^{1/}	8	.18
	Perennial ryegrass	3	.07
	Total	21	.48
18.	Deertongue	10 (PLS) ^{2/}	.23
	Crownvetch ^{1/}	15	.34
	Perennial ryegrass	3	.07
CHAD	Total	28	.64
ЭПА Д 19.	Y SITES Creeping red fescue	50	1.15
13.	Canada bluegrass or	50	1.15
	Kentucky bluegrass		
	Total	100	2.30
20.	Creeping red fescue	100	2.30
21.	Creeping red fescue	50	1.15
	Tall fescue	30	.69
22.	Total Creeping red fescue	80 20	1.84 .46
<i></i> .	Flat Pea	30	.69
	Total	50	1.15
23.	Tall fescue	150	3.44

 $^{^{1/}}$ Innoculate legume seeds, use four times recommended rate of inoculante when hydroseeding.

^{2/} Pure Live Seed (PLS): Warm season grass seed is sold and planted on the basis of pure live seed. An adjustment is made to the bulk pounds of seed to compensate for inert material and dead seed.

TABLE A-3 TEMPORARY SEEDING (from USDA Soil Conservation services)

SEED	<u>Lb/Ac</u>	<u>Lb/</u> 1,000SF	Recommended Seeding Dates	Remarks
Winter Rye	112	2.6	8/15-10/1	Good for fall seeding. Select a hardy specie such as Aroostook Rye
Oats	80	1.8	4/1-7/1 8/15-9/15	Best for spring seeding. Early fall seedings will die with the winter but mulch will provide protection.
Annual Ryegrass	40	0.9	4/1-7/1	Grows quickly but is of short duration. Use where appearance iis important. With mulch, seeding may be done throughout growing season.
Sudangrass	40	0.9	5/15-8/15	Good growth during periods of hot weather. Good cover, longer lasting than annual
Perennial	40	0.9	8/15-9/15	Ryegrass. Mulching will allow seeding throughout growing season.
Temporary mulch with/out without seeding			0/1-4/1	Refer to TEMPORARY MULCHING BMP and PERMANENT VEGETATION BMP

Tree and Shrub Species

Primarily for cover on sand and gravel sites: Bristly locust, rugosa rose, seabuckthorn, and common juniper. Of these, bristly locust is the best where rapid spread and development is needed to provide cover on steep banks or gullies. Rugosa rose and seabuckthorn also spread by suckering, but are not as vigorous as bristly locust. Sweetfern can be used, if local transplant material is available. Overseeding shrub plantings with perennial ryegrass at 10 to 15 pounds per acre will provide some protection against erosion while the shrub planting is developing. Spacing of shrubs should be 4 feet x 4 feet, or 4 feet x 6 feet.

Primarily for wildlife food and cover: Use any of the above plants or crabapples, red osier dogwood, highbrush cranberry, sumac species, thornapple, and mountain ash. **Primarily for screening:** Eastern red cedar, crabapples, European and Japanese larch, American arborvitea, red spruce, white spruce, Norway spruce, red pine and jack pine. *Note: Avoid exotic invasive species including Autumn Olive, Russian Olive and Honeysuckle.*